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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/572,766	03/21/2006	Peter Ward	1-17284	3333
1678	7590	10/24/2008	EXAMINER	
MARSHALL & MELHORN, LLC FOUR SEAGATE - EIGHTH FLOOR TOLEDO, OH 43604			NGUYEN, CHI Q	
ART UNIT	PAPER NUMBER			
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/572,766	<b>Applicant(s)</b> WARD ET AL.
	<b>Examiner</b> CHI Q. NGUYEN	<b>Art Unit</b> 3635

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### **Status**

1) Responsive to communication(s) filed on 21 March 2006.

2a) This action is FINAL.      2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### **Disposition of Claims**

4) Claim(s) 21-39 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 21-39 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### **Application Papers**

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 21 March 2006 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### **Priority under 35 U.S.C. § 119**

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### **Attachment(s)**

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/06/08)  
Paper No(s)/Mail Date \_\_\_\_\_

4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_

5) Notice of Informal Patent Application

6) Other: \_\_\_\_\_

### **DETAILED ACTION**

This Office action is in response to applicant's preliminary amendment filed on 3/21/2006.

#### ***Status of Claims***

Claims 21-39 are pending.

Claims 1-20 have been cancelled.

#### ***Claim Objections***

Claims 21-39 are objected to because of the following informalities:

Claim 21: citations "the production; the plies; the interlayer; the inner faces; the area" do not have antecedent basis for these limitations.

Claim 23: a citation "the completion of the lamination process" does not have antecedent basis for this limitation.

Claim 28: a citation "the perimeter of an annulus" does not have antecedent basis for this limitation.

Claim 31: citations "the interlayer; the area; the bore" do not have antecedent basis for these limitations.

Claim 35: a citation "the lamination process" does not have antecedent basis.

Appropriate corrections are required. Since claims 22, 24-27, 29-30, 32-39 depending upon the objected independent claims 21 and 31 are also objected.

The claim preamble for claims 37-39 should read --The assembly--. Correction is required.

#### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 21-39 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In regarding claims 21-30, the preamble of these claims are cited as "A method for the production of laminated panel"; however there are not method steps are cited.

In regarding claim 31, a cited limitation "wherein the interlayer is excluded from the area surrounding the bore and a load bearing insert is positioned in the area from which the interlayer has been excluded" is confusing.

In regarding claim 35, a cited limitation "a load bearing annulus which has formed by the setting of a fluid which fluid has been introduced into the area from which the interlayer has been excluded after the lamination process has been completed" is indefinite and confusing because the claimed preamble is set forth an apparatus of a laminated panel and the claimed limitation

Claims 22-30 and 32-39 depending upon the rejected claims 21 and 31 are also rejected.

#### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 21-37 and 39 are rejected under 35 U.S.C. 102(b) as being anticipated by US Pat. No. 5,391,411 to Rowland et al.

Claim 21:

Rowland et al. disclose a laminated panel comprising a first glass ply 11, a second glass ply 12 and a bonding interlayer 17 said laminate having at least one bore 14/15 extending through the panel wherein a sealing member 16 is placed between the plies so as to surround the bore and form a seal with the inner faces of the glass plies thereby excluding the interlayer from an area surrounding the bore and a load bearing insert 13 is positioned in the area surrounding the bore from interlayer has been excluded (See Figs. 1-5 and col. 3, lines 13-14, 57-58).

Claims 22, 24:

Wherein the sealing member 16 is a resilient material, in a disc shaped (see col. 4, line 18) comprises a compressible material (Fig. 3).

Claims 23, 25:

Wherein the sealing member 16 is inherently removed from the laminated panel following the completion of the lamination process (see cols. 5-6).

Claim 26:

Wherein the load bearing insert 13 is positioned by injecting a fluid into the area surrounding the bore and allowing the fluid to set to form the load bearing insert (see cols. 5-6).

Claim 27:

Wherein air is withdrawn from the area surrounding the bore at the same time that the fluid is introduced.

Claim 28:

Wherein the sealing member comprises a ring of compressible material which extends around the perimeter of an annulus formed from a load bearing material and which is positioned prior to the lamination step (col. 4, lines 15-66).

Claim 29:

Wherein thickness of the sealing member, prior to lamination, is greater (Fig. 4) than that of the annulus (see Fig. 3).

Claim 30:

Wherein the ring of compressible material is compressed so that its thickness is substantially the same as that of the disc during the lamination process (see Fig. 3).

Claims 31, 36, 39:

Rowland et al. disclose a laminated panel comprising a first glass ply 11, a second glass ply 12 and a bonding interlayer 17 having at least one bore 14/15 passing through said panel wherein the interlayer is excluded from the area surrounding the bore and a load bearing insert 13 is positioned in the area from which the interlayer has been excluded.

Claim 32:

Further comprising a sealing member 16 positioned so as to surround the bore.

Claim 33:

Wherein said seal 16 is formed by a ring (see col. 4, line 18) of compressible material positioned so as to surround the bore (see Fig. 3).

Claim 34:

Wherein said insert comprises a load bearing disc which was positioned prior to the production of the laminate (col. 4, lines 15-66).

Claim 35:

Wherein the insert 13 comprises a load bearing annulus which has formed by the setting of a fluid which fluid has been introduced into the area from which the interlayer has been excluded after the lamination process has been completed (cols. 5-6).

Claim 37:

Comprising at least two laminated panels 11/12 lying in the same plane and jointed to one another by means 13 of fixing assemblies which pass through a bore in each panel (Figs. 1-5).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over US Pat. No. 5,391,411 to Rowland et al. in view of US Pat. No. 3,679,527 to Crick.

Rowland et al. disclose the basic structures for a laminated glass panel as stated above but do not disclose expressly wherein the fixing assemblies comprise a bolt

passing through a bore and acting on a plate which bridges the two panels. Crick discloses a laminated panel comprising a first, a second panels 10/11, interlayer 12, a bore with a bolt 21 passing through, which bridges the two panels (see Fig. 1). In view of Crick, it would have been obvious to a person having an ordinary skill in the art at the time the invention was made to provide Rowland's invention a bolt in order to fasten the two glass panels for more securement.

***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Chi Q. Nguyen whose telephone number is (571) 272-6847. The examiner can normally be reached on Monday-Friday from 7:30 am-4:00 pm.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Chilcot can be reached at (571) 272-6777.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pairdirect.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197.

/C. Q. N./  
Examiner, Art Unit 3635

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*/Richard E. Chilcot, Jr./*

Supervisory Patent Examiner, Art Unit 3635